

### Abstract

One embodiment of the invention provides a UPS including a precharge circuit and a battery pack sensor electrically coupled to the precharge circuit. The sensor senses the presence  
5 of an extra battery pack. The precharge circuit includes: a first precharge contact; a capacitor having first and second leads, the first lead electrically coupled to the first contact; a second precharge contact electrically coupled to the second lead of the capacitor; a current limiting circuit having first and second leads, the first lead of the current limiting circuit electrically coupled to the first lead of the capacitor; and a third precharge contact electrically coupled to the  
10 second lead of the current limiting circuit. The UPS can further include an enclosure having a housing and a battery connector integral to the housing, the battery connector adapted to receive the first, second and third precharge contacts.

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